

Line Pattern Flat Light LFX3-100IR860-PT-B

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A\$4,800⁰⁰

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General	
LFX3-100IR860-PT-B	Model Number:
LED Illuminator	Type of Illumination:
CCS	Manufacturer:
Flat Light	Geometry:
Constant	Illumination Mode:

Physical & Mechanical Properties	
	Dimensions (mm): W 143 mm xD 143 mm xH 13.1 mm
	Weight (g): 400
Optical Properties	
	Color: IR
	Wavelength (nm): 857
Electrical	
	Power Consumption (W): 14
Hardware & Interface Connectivity	
	Input Voltage (V): 24
	Power Supply: Power Supply Required and Sold Separately. USA: #73-491 Europe: #73-491 Japan: #89-513 Korea: #33-773 China: #73-491
Regulatory Compliance	
	RoHS 2015: Exempt
	Reach 224: Contains SVHC(s)
	Certificate of Conformance: View

Product Details

- Detect Imperfections on Reflective Surfaces
- Line Pattern Projected Through Light Guiding Diffusion Plate
- Multiple Wavelengths and Working Distances Available

CCS Coaxial Line Pattern Flat Lights feature a line pattern on the surface of a light guiding diffusion plate which allows for the detection of minute bumps and dents on reflective surfaces. When integrated into a machine vision system, the image of the reflected line pattern highlights defects by breaking the continuity of the surface and distorting the line pattern. These flat lights are available with two pitch options, 1mm for shorter working distances and 2mm for longer working distances. CCS Coaxial Line Pattern Flat Lights are ideal for inspection of reflective surfaces such as mirrors, metal sheets, glass surfaces, and reflective films.

Technical Information

Two types of line patterns available

Select one to match your inspection conditions.

Imaging examples

Narrow pitch

1 mm type

LFX3-PT-A Series

Camera

Light Unit

Workpiece

30 mm

The distance from the Light Unit to the workpiece is short.

2 mm type

LFX3-PT-B Series

Camera

Light Unit

Workpiece

150 mm

The distance from the Light Unit to the workpiece is long.

Wide pitch

Camera

Light Unit

Workpiece

150 mm

The distance from the Light Unit to the workpiece is long.

Example configuration (LFX3-100-PT)

Imaging example: Imaging the external appearance of metal plate

Camera

Light-guiding diffusion plate

LED

Workpiece

Workpiece: Metal plate

LED Coaxial Light

Coaxial Lights illuminate the whole surface evenly, making it difficult to detect the bumps.

LFX3 Line Pattern Light

Line Pattern Lights highlight the bumps as curved lines.